

What Is Claimed Is:

1. A displacement detector of a platform for an exercise apparatus having a base and a platform, both sides of the base extending upwardly to form two opposing upright supports, a control console being disposed above the upright support, a continuous
5 belt being mounted around the platform for undergoing an in-place rotation, the displacement detector comprising:
 - a) a rotating element positioned on the platform;
 - b) a rope movably tensioned by the rotating element between two fixed points on the base and the upright support, so that when the platform is forced to move
10 upwardly and downwardly, the rotating element undergoes an in-place rotation by the pulling force of the rope; and
 - c) a means for detecting the rotational displacement of the rotating element, the detecting means being positioned beside the rotating element on the platform, whereby the detected value is transmitted to a microprocessor in the control
15 console.
2. The displacement detector of claim 1 wherein the rotating element and the detecting element are arranged on a connection piece that is pivotally mounted on and movable with the platform.